

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/830,972 A
Source: IFW16
Date Processed by STIC: 01/05/2006

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 01/05/2006

PATENT APPLICATION: US/09/830,972A

TIME: 12:26:40

Input Set : E:\10200-003-999.txt

Output Set: N:\CRF4\01052006\I830972A.raw

4 <110> APPLICANT: Schwab, M.
5 Chen, M.
7 <120> TITLE OF INVENTION: NUCLEOTIDE AND PROTEIN SEQUENCES OF NOGO
8 GENES AND METHODS BASED THEREON
10 <130> FILE REFERENCE: 10200-003-999
12 <140> CURRENT APPLICATION NUMBER: 09/830,972A
13 <141> CURRENT FILING DATE: 2001-09-24
15 <150> PRIOR APPLICATION NUMBER: PCT/US99/26160
16 <151> PRIOR FILING DATE: 1999-11-05
18 <150> PRIOR APPLICATION NUMBER: 60/107,446
19 <151> PRIOR FILING DATE: 1998-11-06
21 <160> NUMBER OF SEQ ID NOS: 51
23 <170> SOFTWARE: FastSEQ for Windows Version 3.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 3741
27 <212> TYPE: DNA
28 <213> ORGANISM: Rattus sp.
30 <220> FEATURE:
31 <221> NAME/KEY: CDS
32 <222> LOCATION: (253)...(3741)
34 <400> SEQUENCE: 1

35 attgctcgtc tgggcggcgg cggcggctgc agcctgggac agggcgggtg gcacatctcg 60
36 atcgcgagg cagcagaagc agtctcattg ttccgggagc cgtcgcctct gcaggttctt 120
37 cggctcggct cggcacgact cggcctgcct ggcccctgcc agtcttgccc aacccccaca 180
38 accgcccgcg actctgagga gaagcggccc tgcggcggct gtagctgcag catcgtcggc 240
39 gaccgcgcag cc atg gaa gac ata gac cag tcg tcg ctg gtc tcc tcg tcc 291
40 Met Glu Asp Ile Asp Gln Ser Ser Leu Val Ser Ser Ser
41 1 5 10

43 acg gac agc ccg ccc cgg cct ccg ccc gcc ttc aag tac cag ttc gtg 339
44 Thr Asp Ser Pro Pro Arg Pro Pro Pro Ala Phe Lys Tyr Gln Phe Val
45 15 20 25

47 acg gag ccc gag gac gag gag gac gag gag gag gag gag gag gag gag 387
48 Thr Glu Pro Glu Asp Glu Glu Asp Glu Glu Glu Glu Glu Asp Glu Glu
49 30 35 40 45

51 gag gac gag gag gac cta gag gaa ctg gag gtg ctg gag agg aag ccc 435
52 Glu Asp Asp Glu Asp Leu Glu Glu Leu Val Leu Glu Arg Lys Pro
53 50 55 60

55 gca gcc ggg ctg tcc gca gct gcg gtg ccg ccc gcc gcc gcc gcc gcc 483
56 Ala Ala Gly Leu Ser Ala Ala Ala Val Pro Pro Ala Ala Ala Ala Pro
57 65 70 75

58 ctg ctg gac ttc agc agc gac tcg gtg ccc ccc gcg ccc cgc ggg ccg 531
59 Leu Leu Asp Phe Ser Ser Asp Ser Val Pro Pro Ala Pro Arg Gly Pro
60 80 85 90

Cp9-6)

RAW SEQUENCE LISTING

DATE: 01/05/2006

PATENT APPLICATION: US/09/830,972A

TIME: 12:26:40

Input Set : E:\10200-003-999.txt

Output Set: N:\CRF4\01052006\I830972A.raw

```

62  ctg ccg gcc gcg ccc cct gcc gct cct gag agg cag cca tcc tgg gaa      579
63  Leu Pro Ala Ala Pro Pro Ala Ala Pro Glu Arg Gln Pro Ser Trp Glu
64      95      100      105
66  cgc agc ccc gcg gcg ccc gcg cca tcc ctg ccg ccc gct gcc gca gtc      627
67  Arg Ser Pro Ala Ala Pro Ala Pro Ser Leu Pro Pro Ala Ala Ala Val
68  110      115      120      125
70  ctg ccc tcc aag ctc cca gag gac gac gag cct ccg gcg agg ccc ccg      675
71  Leu Pro Ser Lys Leu Pro Glu Asp Asp Glu Pro Pro Ala Arg Pro Pro
72      130      135      140
74  cct ccg ccg cca gcc ggc gcg agc ccc ctg gcg gag ccc gcc gcg ccc      723
75  Pro Pro Pro Pro Ala Gly Ala Ser Pro Leu Ala Glu Pro Ala Ala Pro
76      145      150      155
78  cct tcc acg ccg gcc gcg ccc aag cgc agg ggc tcc ggc tca gtg gat      771
79  Pro Ser Thr Pro Ala Ala Pro Lys Arg Arg Gly Ser Gly Ser Val Asp
80      160      165      170
82  gag acc ctt ttt gct ctt cct gct gca tct gag cct gtg ata ccc tcc      819
83  Glu Thr Leu Phe Ala Leu Pro Ala Ala Ser Glu Pro Val Ile Pro Ser
84      175      180      185
86  tct gca gaa aaa att atg gat ttg atg gag cag cca ggt aac act gtt      867
87  Ser Ala Glu Lys Ile Met Asp Leu Met Glu Gln Pro Gly Asn Thr Val
88  190      195      200      205
90  tcg tct ggt caa gag gat ttc cca tct gtc ctg ctt gaa act gct gcc      915
91  Ser Ser Gly Gln Glu Asp Phe Pro Ser Val Leu Leu Glu Thr Ala Ala
92      210      215      220
94  tct ctt cct tct cta tct cct ctc tca act gtt tct ttt aaa gaa cat      963
95  Ser Leu Pro Ser Leu Ser Pro Leu Ser Thr Val Ser Phe Lys Glu His
96      225      230      235
98  gga tac ctt ggt aac tta tca gca gtg tca tcc tca gaa gga aca att      1011
99  Gly Tyr Leu Gly Asn Leu Ser Ala Val Ser Ser Ser Glu Gly Thr Ile
100      240      245      250
102  gaa gaa act tta aat gaa gct tct aaa gag ttg cca gag agg gca aca      1059
103  Glu Glu Thr Leu Asn Glu Ala Ser Lys Glu Leu Pro Glu Arg Ala Thr
104      255      260      265
106  aat cca ttt gta aat aga gat tta gca gaa ttt tca gaa tta gaa tat      1107
107  Asn Pro Phe Val Asn Arg Asp Leu Ala Glu Phe Ser Glu Leu Glu Tyr
108  270      275      280      285
110  tca gaa atg gga tca tct ttt aaa ggc tcc cca aaa gga gag tca gcc      1155
111  Ser Glu Met Gly Ser Ser Phe Lys Gly Ser Pro Lys Gly Glu Ser Ala
112      290      295      300
113  ata tta gta gaa aac act aag gaa gaa gta att gtg agg agt aaa gac      1203
114  Ile Leu Val Glu Asn Thr Lys Glu Glu Val Ile Val Arg Ser Lys Asp
115      305      310      315
117  aaa gag gat tta gtt tgt agt gca gcc ctt cac agt cca caa gaa tca      1251
118  Lys Glu Asp Leu Val Cys Ser Ala Ala Leu His Ser Pro Gln Glu Ser
119      320      325      330
121  cct gtg ggt aaa gaa gac aga gtt gtg tct cca gaa aag aca atg gac      1299
122  Pro Val Gly Lys Glu Asp Arg Val Val Ser Pro Glu Lys Thr Met Asp
123      335      340      345
125  att ttt aat gaa atg cag atg tca gta gta gca cct gtg agg gaa gag      1347

```

RAW SEQUENCE LISTING

DATE: 01/05/2006

PATENT APPLICATION: US/09/830,972A

TIME: 12:26:40

Input Set : E:\10200-003-999.txt

Output Set: N:\CRF4\01052006\I830972A.raw

126	Ile Phe Asn Glu Met Gln Met Ser Val Val Ala Pro Val Arg Glu Glu	
127	350 355 360 365	
129	tat gca gac ttt aag cca ttt gaa caa gca tgg gaa gtg aaa gat act	1395
130	Tyr Ala Asp Phe Lys Pro Phe Glu Gln Ala Trp Glu Val Lys Asp Thr	
131	370 375 380	
133	tat gag gga agt agg gat gtg ctg gct gct aga gct aat gtg gaa agt	1443
134	Tyr Glu Gly Ser Arg Asp Val Leu Ala Ala Arg Ala Asn Val Glu Ser	
135	385 390 395	
137	aaa gtg gac aga aaa tgc ttg gaa gat agc ctg gag caa aaa agt ctt	1491
138	Lys Val Asp Arg Lys Cys Leu Glu Asp Ser Leu Glu Gln Lys Ser Leu	
139	400 405 410	
141	ggg aag gat agt gaa ggc aga aat gag gat gct tct ttc ccc agt acc	1539
142	Gly Lys Asp Ser Glu Gly Arg Asn Glu Asp Ala Ser Phe Pro Ser Thr	
143	415 420 425	
145	cca gaa cct gtg aag gac agc tcc aga gca tat att acc tgt gct tcc	1587
146	Pro Glu Pro Val Lys Asp Ser Ser Arg Ala Tyr Ile Thr Cys Ala Ser	
147	430 435 440 445	
149	ttt acc tca gca acc gaa agc acc aca gca aac act ttc cct ttg tta	1635
150	Phe Thr Ser Ala Thr Glu Ser Thr Thr Ala Asn Thr Phe Pro Leu Leu	
151	450 455 460	
153	gaa gat cat act tca gaa aat aaa aca gat gaa aaa aaa ata gaa gaa	1683
154	Glu Asp His Thr Ser Glu Asn Lys Thr Asp Glu Lys Lys Ile Glu Glu	
155	465 470 475	
157	agg aag gcc caa att ata aca gag aag act agc ccc aaa acg tca aat	1731
158	Arg Lys Ala Gln Ile Ile Thr Glu Lys Thr Ser Pro Lys Thr Ser Asn	
159	480 485 490	
161	cct ttc ctt gta gca gta cag gat tct gag gca gat tat gtt aca aca	1779
162	Pro Phe Leu Val Ala Val Gln Asp Ser Glu Ala Asp Tyr Val Thr Thr	
163	495 500 505	
165	gat acc tta tca aag gtg act gag gca gca gtg tca aac atg cct gaa	1827
166	Asp Thr Leu Ser Lys Val Thr Glu Ala Ala Val Ser Asn Met Pro Glu	
167	510 515 520 525	
168	ggg ctg acg cca gat tta gtt cag gaa gca tgt gaa agt gaa ctg aat	1875
169	Gly Leu Thr Pro Asp Leu Val Gln Glu Ala Cys Glu Ser Glu Leu Asn	
170	530 535 540	
172	gaa gcc aca ggt aca aag att gct tat gaa aca aaa gtg gac ttg gtc	1923
173	Glu Ala Thr Gly Thr Lys Ile Ala Tyr Glu Thr Lys Val Asp Leu Val	
174	545 550 555	
176	caa aca tca gaa gct ata caa gaa tca ctt tac ccc aca gca cag ctt	1971
177	Gln Thr Ser Glu Ala Ile Gln Glu Ser Leu Tyr Pro Thr Ala Gln Leu	
178	560 565 570	
180	tgc cca tca ttt gag gaa gct gaa gca act ccg tca cca gtt ttg cct	2019
181	Cys Pro Ser Phe Glu Glu Ala Glu Ala Thr Pro Ser Pro Val Leu Pro	
182	575 580 585	
184	gat att gtt atg gaa gca cca tta aat tct ctc ctt cca agc gct ggt	2067
185	Asp Ile Val Met Glu Ala Pro Leu Asn Ser Leu Leu Pro Ser Ala Gly	
186	590 595 600 605	
188	gct tct gta gtg cag ccc agt gta tcc cca ctg gaa gca cct cct cca	2115
189	Ala Ser Val Val Gln Pro Ser Val Ser Pro Leu Glu Ala Pro Pro Pro	

RAW SEQUENCE LISTING

DATE: 01/05/2006

PATENT APPLICATION: US/09/830,972A

TIME: 12:26:40

Input Set : E:\10200-003-999.txt

Output Set: N:\CRF4\01052006\I830972A.raw

190		610		615		620	
192	ggt agt tat gac agt ata aag ctt gag cct gaa aac ccc cca cca tat						2163
193	Val Ser Tyr Asp Ser Ile Lys Leu Glu Pro Glu Asn Pro Pro Pro Tyr						
194		625		630		635	
196	gaa gaa gcc atg aat gta gca cta aaa gct ttg gga aca aag gaa gga						2211
197	Glu Glu Ala Met Asn Val Ala Leu Lys Ala Leu Gly Thr Lys Glu Gly						
198		640		645		650	
200	ata aaa gag cct gaa agt ttt aat gca gct gtt cag gaa aca gaa gct						2259
201	Ile Lys Glu Pro Glu Ser Phe Asn Ala Ala Val Gln Glu Thr Glu Ala						
202		655		660		665	
204	cct tat ata tcc att gcg tgt gat tta att aaa gaa aca aag ctc tcc						2307
205	Pro Tyr Ile Ser Ile Ala Cys Asp Leu Ile Lys Glu Thr Lys Leu Ser						
206	670		675		680		685
208	act gag cca agt cca gat ttc tct aat tat tca gaa ata gca aaa ttc						2355
209	Thr Glu Pro Ser Pro Asp Phe Ser Asn Tyr Ser Glu Ile Ala Lys Phe						
210		690		695		700	
212	gag aag tcg gtg ccc gaa cac gct gag cta gtg gag gat tcc tca cct						2403
213	Glu Lys Ser Val Pro Glu His Ala Glu Leu Val Glu Asp Ser Ser Pro						
214		705		710		715	
216	gaa tct gaa cca gtt gac tta ttt agt gat gat tcg att cct gaa gtc						2451
217	Glu Ser Glu Pro Val Asp Leu Phe Ser Asp Asp Ser Ile Pro Glu Val						
218		720		725		730	
220	cca caa aca caa gag gag gct gtg atg ctc atg aag gag agt ctc act						2499
221	Pro Gln Thr Gln Glu Glu Ala Val Met Leu Met Lys Glu Ser Leu Thr						
222		735		740		745	
224	gaa gtg tct gag aca gta gcc cag cac aaa gag gag aga ctt agt gcc						2547
225	Glu Val Ser Glu Thr Val Ala Gln His Lys Glu Glu Arg Leu Ser Ala						
226	750		755		760		765
228	tca cct cag gag cta gga aag cca tat tta gag tct ttt cag ccc aat						2595
229	Ser Pro Gln Glu Leu Gly Lys Pro Tyr Leu Glu Ser Phe Gln Pro Asn						
230		770		775		780	
232	tta cat agt aca aaa gat gct gca tct aat gac att cca aca ttg acc						2643
233	Leu His Ser Thr Lys Asp Ala Ala Ser Asn Asp Ile Pro Thr Leu Thr						
234		785		790		795	
236	aaa aag gag aaa att tct ttg caa atg gaa gag ttt aat act gca att						2691
237	Lys Lys Glu Lys Ile Ser Leu Gln Met Glu Glu Phe Asn Thr Ala Ile						
238		800		805		810	
240	tat tca aat gat gac tta ctt tct tct aag gaa gac aaa ata aaa gaa						2739
241	Tyr Ser Asn Asp Asp Leu Leu Ser Ser Lys Glu Asp Lys Ile Lys Glu						
242		815		820		825	
244	agt gaa aca ttt tca gat tca tct ccg att gag ata ata gat gaa ttt						2787
245	Ser Glu Thr Phe Ser Asp Ser Ser Pro Ile Glu Ile Ile Asp Glu Phe						
246	830		835		840		845
248	ccc acg ttt gtc agt gct aaa gat gat tct cct aaa tta gcc aag gag						2835
249	Pro Thr Phe Val Ser Ala Lys Asp Asp Ser Pro Lys Leu Ala Lys Glu						
250		850		855		860	
252	tac act gat cta gaa gta tcc gac aaa agt gaa att gct aat atc caa						2883
253	Tyr Thr Asp Leu Glu Val Ser Asp Lys Ser Glu Ile Ala Asn Ile Gln						
254		865		870		875	

RAW SEQUENCE LISTING

DATE: 01/05/2006

PATENT APPLICATION: US/09/830,972A

TIME: 12:26:40

Input Set : E:\10200-003-999.txt

Output Set: N:\CRF4\01052006\I830972A.raw

256	agc ggg gca gat tca ttg cct tgc tta gaa ttg ccc tgt gac ctt tct	2931
257	Ser Gly Ala Asp Ser Leu Pro Cys Leu Glu Leu Pro Cys Asp Leu Ser	
258	880 885 890	
260	ttc aag aat ata tat cct aaa gat gaa gta cat gtt tca gat gaa ttc	2979
261	Phe Lys Asn Ile Tyr Pro Lys Asp Glu Val His Val Ser Asp Glu Phe	
262	895 900 905	
264	tcc gaa aat agg tcc agt gta tct aag gca tcc ata tcg cct tca aat	3027
265	Ser Glu Asn Arg Ser Ser Val Ser Lys Ala Ser Ile Ser Pro Ser Asn	
266	910 915 920 925	
268	gtc tct gct ttg gaa cct cag aca gaa atg ggc agc ata gtt aaa tcc	3075
269	Val Ser Ala Leu Glu Pro Gln Thr Glu Met Gly Ser Ile Val Lys Ser	
270	930 935 940	
272	aaa tca ctt acg aaa gaa gca gag aaa aaa ctt cct tct gac aca gag	3123
273	Lys Ser Leu Thr Lys Glu Ala Glu Lys Lys Leu Pro Ser Asp Thr Glu	
274	945 950 955	
276	aaa gag gac aga tcc ctg tca gct gta ttg tca gca gag ctg agt aaa	3171
277	Lys Glu Asp Arg Ser Leu Ser Ala Val Leu Ser Ala Glu Leu Ser Lys	
278	960 965 970	
280	act tca gtt gtt gac ctc ctc tac tgg aga gac att aag aag act gga	3219
281	Thr Ser Val Val Asp Leu Leu Tyr Trp Arg Asp Ile Lys Lys Thr Gly	
282	975 980 985	
284	gtg gtg ttt ggt gcc agc tta ttc ctg ctg ctg tct ctg aca gtg ttc	3267
285	Val Val Phe Gly Ala Ser Leu Phe Leu Leu Leu Ser Leu Thr Val Phe	
286	990 995 1000 1005	
288	agc att gtc agt gta acg gcc tac att gcc ttg gcc ctg ctc tcg gtg	3315
289	Ser Ile Val Ser Val Thr Ala Tyr Ile Ala Leu Ala Leu Leu Ser Val	
290	1010 1015 1020	
292	act atc agc ttt agg ata tat aag ggc gtg atc cag gct atc cag aaa	3363
293	Thr Ile Ser Phe Arg Ile Tyr Lys Gly Val Ile Gln Ala Ile Gln Lys	
294	1025 1030 1035	
296	tca gat gaa ggc cac cca ttc agg gca tat tta gaa tct gaa gtt gct	3411
297	Ser Asp Glu Gly His Pro Phe Arg Ala Tyr Leu Glu Ser Glu Val Ala	
298	1040 1045 1050	
300	ata tca gag gaa ttg gtt cag aaa tac agt aat tct gct ctt ggt cat	3459
301	Ile Ser Glu Glu Leu Val Gln Lys Tyr Ser Asn Ser Ala Leu Gly His	
302	1055 1060 1065	
304	gtg aac agc aca ata aaa gaa ctg agg cgg ctt ttc tta gtt gat gat	3507
305	Val Asn Ser Thr Ile Lys Glu Leu Arg Arg Leu Phe Leu Val Asp Asp	
306	1070 1075 1080 1085	
308	tta gtt gat tcc ctg aag ttt gca gtg ttg atg tgg gtg ttt act tat	3555
309	Leu Val Asp Ser Leu Lys Phe Ala Val Leu Met Trp Val Phe Thr Tyr	
310	1090 1095 1100	
312	gtt ggt gcc ttg ttc aat ggt ctg aca cta ctg att tta gct ctg atc	3603
313	Val Gly Ala Leu Phe Asn Gly Leu Thr Leu Ile Leu Ala Leu Ile	
314	1105 1110 1115	
316	tca ctc ttc agt att cct gtt att tat gaa cgg cat cag gtg cag ata	3651
317	Ser Leu Phe Ser Ile Pro Val Ile Tyr Glu Arg His Gln Val Gln Ile	
318	1120 1125 1130	
320	gat cat tat cta gga ctt gca aac aag agt gtt aag gat gcc atg gcc	3699

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/830,972A

DATE: 01/05/2006
TIME: 12:26:41

Input Set : E:\10200-003-999.txt
Output Set: N:\CRF4\01052006\I830972A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; Xaa Pos. 2, /
Seq#:6; Xaa Pos. 2, 5
Seq#:29; Xaa Pos. 187,188,189,190,221,328,477
Seq#:30; Xaa Pos. 469
Seq#:35; N Pos. 110
Seq#:36; N Pos. 91
Seq#:37; N Pos. 170,275
Seq#:38; N Pos. 371,444,474,501,506,524,544,561,580,614,620
Seq#:39; N Pos. 149,198,207,246,312,317
Seq#:42; N Pos. 383,402,421,433,441
Seq#:47; N Pos. 3,6,12,15,18
Seq#:48; N Pos. 3,6,9,12,15
Seq#:49; N Pos. 3,6,12,15,20
Seq#:50; N Pos. 3,6,9,12,15,18,21
Seq#:51; N Pos. 9,12,24

VERIFICATION SUMMARY

DATE: 01/05/2006

PATENT APPLICATION: US/09/830,972A

TIME: 12:26:41

Input Set : E:\10200-003-999.txt

Output Set: N:\CRF4\01052006\I830972A.raw

L:511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:973 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:176
L:977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:208
L:991 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:320
L:1009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:464
L:1169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:464
L:1358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:60
L:1375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:60
L:1395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:120
L:1397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:240
L:1416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:360
L:1417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:420
L:1418 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:480
L:1419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:540
L:1420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:600
L:1435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:120
L:1436 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:180
L:1437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:240
L:1438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:300
L:1483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:360
L:1484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:420
L:1545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:1562 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
L:1579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:1596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
L:1614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0